

ISOLATION AND FLOW DIRECTION/CONTROL PLATES FOR A HEAT EXCHANGER

ABSTRACT OF THE DISCLOSURE

A method and apparatus for controlling and isolating heat exchanger flows in a heat exchanger includes at least one isolation and flow direction control plate (40) having at least one fluid slot (45). The isolation and flow direction control plates (40, 41, 42) create a plurality of smaller heat exchangers 50 within a heat exchanger assembly (1). The isolation and flow direction control plates (40, 41, 42) permit fluid communication between the corresponding smaller heat exchangers (50) and individualized flow direction control over a shell side fluid flow between a shell side fluid inlet (11) and a shell side fluid outlet (12) of the heat exchanger assembly (1).